

Claims

1. Data communication system (1) having a plurality of computers (5, 15a, 25) and an administrative computer (31)
5 characterized in that
prior to the updating of software stored on one of the computers (5, 15a, 25) or, as the case may be, on a storage device (8, 18, 28) assigned thereto, data indicating which transmission medium is to be used for exchanging data used for updating or, as the
10 case may be, for controlling the updating process is exchanged between the respective computer (5, 15a, 25) and the administrative computer (31).
2. Data communication system (1) according to Claim 1
15 characterized in that
the data indicating which transmission medium is to be used for exchanging data used for updating or, as the case may be, for controlling the updating process is exchanged over a predetermined transmission medium which can differ from the transmission
20 medium indicated.
3. Data communication system (1) according to Claim 2
characterized in that
the predetermined transmission medium is a telephone connection
25 set up between the administrative computer (31) and the respective computer (5, 15a, 25).
4. Data communication system (1) according to one of the preceding Claims
30 characterized in that
the indicated transmission medium can be an internet connection.
5. Data communication system (1) according to Claim 4
characterized in that
35 the indicated transmission medium can be a fixed internet connection and in that the IP address assigned to the respective computer (5, 15a, 25) is a fixed IP address permanently assigned to the respective computer (5, 15a, 25).

6. Data communication system (1) according to Claim 4
characterized in that
the indicated transmission medium can be a temporary internet
5 connection and in that the IP address assigned to the respective
computer (5, 15a, 25) is a temporary IP address not permanently
assigned to the respective computer (5, 15a, 25).

7. Data communication system (1) according to one of the preced-
10 ing Claims
characterized in that
the indicated transmission medium can be a telephone connection.

8. Data communication system (1) according to one of the preced-
15 ing Claims
characterized in that
it is ascertained by the respective computer (5, 15a, 25) which
transmission medium is to be used for exchanging data used for
updating or, as the case may be, for controlling the updating
20 process.

9. Data communication system (1) according to one of the preced-
ing Claims
characterized in that
25 an additional computer (4), in particular a server computer, is
provided, with at least one file required for updating the data
being stored on said additional computer (4) or, as the case may
be, on a storage device (34) assigned thereto.

30 10. Data communication system (1) according to Claim 9
characterized in that
the additional computer (4) is a TFTP server computer or a web
server computer.

35 11. Data communication system (1) according to one of the preced-
ing Claims
characterized in that

software-updating control data is exchanged between the respective computer (5, 15a, 25) and the administrative computer (31) over the predetermined or indicated transmission medium.

5 12. Data communication system (1) according to Claim 11 characterized in that the software-updating control data indicates the precise time at which updating is to be performed.

10 13. Data communication system (1) according to Claim 11 or 12 characterized in that the software-updating control data indicates a call identification, in particular a telephone number or IP address or, as the case may be, URL address, assigned to the additional computer
15 (4).

14. Data communication system (1) according to one of Claims 11 to 13 characterized in that
20 it is conveyed with the aid of the software-updating control data which transmission medium is to be used for exchanging data between the respective computer (5, 15a, 25) and the additional computer (4).

25 15. Data communication system (1) according to one of Claims 9 to 14 characterized in that the transmission medium used for exchanging data between the respective computer (5, 15a, 25) and the additional computer (4)
30 corresponds to the transmission medium indicated for exchanging data used for updating or, as the case may be, for controlling the updating process.

16. Data communication system (1) according to one of Claims 9 to
35 15 characterized in that the transmission medium used for exchanging data between the respective computer (5, 15a, 25) and the additional computer (4) is

ascertained separately by the respective computer (5, 15a, 25) and can differ from the transmission medium indicated for exchanging data used for updating or, as the case may be, for controlling the updating process.

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17. Data communication system (1) according to one of Claims 9 to 16

characterized in that

the file which is required for updating the data and stored on
10 the additional computer (4) or, as the case may be, on the storage device (34) assigned thereto is transmitted to the respective computer (5, 15a, 25) over the indicated or, as the case may be, separately ascertained transmission medium.

15 18. Data communication system (1) according to one of the preceding Claims

characterized in that

the computer (5, 15a, 25) is a telecommunication system.

20 19. Data communication system (1) according to Claim 18

characterized in that

the data requiring to be updated is communication-control software.

25 20. Data communication system (1) according to Claim 18 or 19

characterized in that

the computer (5, 15a, 25) is part of a data network (A, B, C) and functions as a central computer (5, 15a, 25) for the data network (A, B, C).

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21. Data communication system (1) according to Claim 20

characterized in that

the data network (A, B, C) is connected to at least one further data network (A, B, C) so that an aggregate network is formed,
35 and in that the respective computer (5, 15a, 25) initiates updating of data stored on a computer (5a, 5b) of the further data network (A, B, C) or, as the case may be, on a storage device (8a, 8b) assigned thereto.

22. Computer (5, 15a, 25) embodied and set up in such a way that it can be used as a computer (5, 15a, 25) in a data communication system (1) according to one of Claims 1 to 25 and embodied and
5 set up in such a way that it ascertains which transmission medium is to be used for exchanging the data used for updating or, as the case may be, for controlling the updating process.

23. Method for updating software stored on a computer (5, 15a,
10 25) of a data communication system (1) or, as the case may be, on a storage device (8, 18, 28) assigned thereto, with the data communication system (1) additionally having an administrative computer (31)
characterized in that
15 prior to the updating of the software stored on the computer (5, 15a, 25) or, as the case may be, on the storage device (8, 18, 28) assigned thereto, data indicating which transmission medium is to be used for exchanging data used for updating or, as the case may be, for controlling the updating process is exchanged
20 between the computer (5, 15a, 25) and the administrative computer (31).